

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A camera lens unit in a portable wireless terminal including a main body and a folder rotatable about a first axis with respect to the main body, the main body having side hinge arms, and the folder having a center hinge arm with an opening and being positioned between the side hinge arms, comprising:

a hinge dummy having a first end and a second end, the hinge dummy being rotatably fixed to one of the side hinge arms and inserted within the center hinge arm along the first axis, the first end being fixed to one of the side hinge arms, the ~~with a second end of the hinge dummy facing the opening, for rotatable engagement with the center hinge arm;~~

a camera holder rotatably engaged with the second end of the hinge dummy; and

a camera lens having an end fixed to the camera holder, disposed in the opening, and rotating with the camera holder about a hinge axis aligned with the first axis, so that an angle of view is controlled.

2. (Original) The camera lens unit of claim 1, wherein the hinge dummy includes a sliding guide extending along a circumferential direction on an inner circumferential surface of the hinge dummy, and the camera holder includes at least one guide pin fixed to an outer circumferential surface of the camera holder, for sliding along the sliding guide as the camera holder rotates.

3. (Original) The camera lens unit of claim 2, wherein the hinge dummy further includes a plurality of grooves spaced equiangularly around the hinge axis on the inner circumferential surface of the hinge dummy between the sliding guide and the second end of the hinge dummy, and the camera holder further includes at least one contact pin formed on the outer circumferential surface of the camera holder, for providing a feeling of click by the extension and retraction, via a predetermined elastic force, of the at least one contact pin contacting the grooves as the camera holder rotates.

4. (Original) The camera lens unit of claim 2, wherein the guide pin is formed integrally with the camera holder.

5. (Original) The camera lens unit of claim 2, wherein the guide pin is formed to retract in and extend from the outer circumferential surface of the camera holder by an elastic force.

6. (Original) The camera lens unit of claim 1, wherein the camera holder includes a fixing hole that passes through both the first and second ends of the camera holder along the hinge axis and the camera lens includes a fixing protrusion protruding from an end of the camera lens, for being inserted into the fixing hole.

7. (Original) The camera lens unit of claim 6, wherein the camera lens further includes a through hole that passes through the fixing protrusion, so that a flexible printed circuit extended from the camera lens is drawn through the through hole.

8. (Original) The camera lens unit of claim 7, wherein the hinge dummy includes a passing hole formed along the hinge axis, through which the flexible printed circuit drawn from the camera lens is inserted into the side hinge arm.

9. (Original) The camera lens unit of claim 8, wherein the hinge dummy further includes a guide hole through an outer circumferential surface of the hinge dummy along the circumferential direction, for communicating the passing hole with the outside of the hinge dummy and defining a path through which another flexible printed circuit drawn from the folder passes.

10. (Original) The camera lens unit of claim 8, further comprising:

a guide hole extending from a predetermined position around an outer circumferential surface of the hinge dummy, for communicating the passing hole with the outside of the hinge dummy and defining a path through which another flexible printed circuit drawn from the folder passes;

a rotational guide extending from an end of the camera holder and inserted into the hinge dummy to be exposed from the hinge dummy through the guide hole; and

a fixing pin fixed onto an outer circumferential surface of the hinge guide, for exerting a

contacting force against a side wall of the guide hole so as to prevent the camera holder from slipping off from the hinge dummy.

11. (Original) The camera lens unit of claim 1, wherein the center hinge arm includes two half portions on opposite sides of the opening and the camera lens includes a support hole formed at another end of the camera lens, and a support protrusion is provided at the half portion on the side opposite from the hinge dummy, for being rotatably inserted into the support hole.

12. (Original) The camera lens unit of claim 11, further comprising a hinge module inserted into the center hinge arm from the half portion of the center hinge arm, for providing a rotation force in an opened direction when the folder is at or above a predetermined angle by a predetermined elastic force and providing a rotation force in a closed direction when the folder is at or below the predetermined angle, wherein the support protrusion is movably installed at an end of the hinge module by a predetermined elastic force to protrude through the other end of the opening.

13. (Original) The camera lens unit of claim 1, further comprising:

an engaging hole formed at a predetermined position on a surface of the camera holder facing the camera lens; and

an engaging rib protruding from the camera lens toward the camera holder, for insertion into the engaging hole,

wherein positioning of the camera holder to the camera lens is determined by engagement of the engaging rib into the engaging hole.

14. (Currently Amended) A camera lens unit in a portable wireless terminal including a main body and a folder rotatable about a first axis with respect to the main body, the main body having side hinge arms, and the folder having a center hinge arm with an opening and having first and second half portions on either side of the opening, hinge-combined between the side hinge arms, comprising:

a hinge dummy having a first end and a second end, the hinge dummy being rotatably fixed to one of the side hinge arms and inserted within the first half portion of the center hinge arm, the first end being fixed to one of the side hinge arms, the and having a second end facing the opening, for rotatable engagement with the center hinge arm;

a camera holder rotatably engaged with the second end of the hinge dummy; and
a camera lens having an end fixed to the camera holder, disposed in the opening, and rotating with the camera holder about a hinge axis aligned with the first axis, so that an angle of view is controlled,

wherein the camera lens unit is supported by a hinge module installed at the second half portion of the center hinge arm, which has a hinge protrusion positioned within the center hinge arm, for rotatably combining the main body with the folder, and a support protrusion protruding from the opening, for rotatably supporting the camera lens.

15. (Original) The camera lens unit of claim 14, wherein the hinge dummy includes a guide hole formed in a circumferential direction, for communicating inside and outside the hinge dummy and providing a path in which a flexible printed circuit drawn from the folder passes.

16. (Original) The camera lens unit of claim 14, wherein the hinge dummy further includes a sliding guide extending along a circumferential direction on an inner circumferential surface of the hinge dummy, and the camera holder includes at least one guide pin fixed on an outer circumferential surface of the camera holder, for sliding in the sliding guide as the camera holder rotates.

17. (Original) The camera lens unit of claim 16, wherein the hinge dummy further includes a plurality of grooves spaced equiangularly around the hinge axis on the inner circumferential surface of the hinge dummy between the sliding guide and the second end of the hinge dummy, and the camera holder further includes at least one contact pin formed on the outer circumferential surface of the camera holder, for providing a feeling of click by the extension and retraction, via a predetermined elastic force, of the at least one contact pin contacting the grooves as the camera holder rotates.

18. (Original) The camera lens unit of claim 14, wherein the hinge dummy includes a fixing end protruding a predetermined length along the hinge axis from the first end of the hinge dummy and fixed to the side hinge arm, the fixing end including a fixing rib extending from the first end of the hinge dummy and a protrusion extending from the first end of the hinge dummy, and positioned near the fixing rib.